SEQUENCE OF CONSTRUCTION

PRE-PHASE 1:

PRIOR TO THE START OF PHASE 1. THE SOUTHBOUND OUTSIDE SHOULDER MUST BE RECONSTRUCTED IN ORDER TO CARRY SHIFTED PHASE 1 TRAFFIC. ALL TEMPORARY PAVEMENT REQUIRED FOR SOUTHBOUND TRAFFIC DURING PHASE 1 AND PHASE 2A SHALL BE CONSTRUCTED IN CONJUNCTION WITH THE SHOULDER RECONSTRUCTION.

ANY PRE-PHASE 1 WORK THAT IMPACTS TRAVEL LANES SHALL BE COMPLETED BY UTILIZING NIGHTTIME LANE CLOSURES PER ODOT SCD MT-95.30. THE LANE CLOSURES MAY ONLY BE IMPLEMENTED DURING HOURS ALLOWED AS LISTED IN THIS PLAN.

<u>PHASE 1:</u>

CLOSE THE INSIDE LANE OF THE THREE LANE SECTION OF I-71 SOUTHBOUND. LANE CLOSURE CONFIGURATION SHALL REMAIN FOR THE DURATION OF PHASE 1 AND PHASES 2A AND 2B. SHIFT SOUTHBOUND LANES ONTO OUTSIDE SHOULDER AND OUTSIDE LANE.

I-71 NORTHBOUND SHALL REMAIN IN EXISTING CONFIGURATION.

CONSTRUCT PROPOSED AREA OF SOUTHBOUND I-71 AS SHOWN IN THE PLANS.

WINTER 2023:

TRAFFIC SHALL BE SHIFTED INTO PHASE 2A CONFIGURATION BY NOVEMBER 1, 2023 WHICH SHALL CONSTITUTE AN INTERIM COMPLETION DATE. TO PROVIDE ADDITIONAL SPACE FOR MOTORIST DURING THE WINTER. THE PHASE 2A PORTABLE BARRIER SHALL NOT BE SET IN THE FOLLOWING LOCATIONS UNTIL APRIL 1, 2024 UNLESS APPROVED BY THE ENGINEER:

STA. 444+85 TO STA. 470+00 STA, 587+00 TO STA, 604+00 STA. 630+00 TO STA. 644+00 STA, 729+00 TO STA, 742+20

IN LEUI OF PORTABLE BARRIER IN THESE LOCATIONS, DRUMS SHALL BE PLACED ALONG THE EDGE OF TRAVEL WAY. TEMPORARY IMPACT ATTENUATORS SHALL BE USED TO PROTECT THE ENDS OF THE PORTABLE BARRIER. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY AS PAYMENT FOR THIS WORK:

ITEM 614 - WORK ZONE IMPACT ATTENUATOR, 24" WIDE - 3 EA

WORK ON PHASE 2 MAY CONTINUE IN AREAS ADEQUATELY PROTECTED BY PORTABLE BARRIER.

EMERGENCY PULL-OFF SHOWN IN THE PLANS SHALL REMAIN OPEN OVER THE WINTER. ADDITIONALLY, A TEMPORARY PULL-OFF SHALL BE CREATED USING EXISTING PAVEMENT ON THE WEST SIDE OF THE SOUTHBOUND LANES PER THE DETAILS SHOWN ON SHEET P.26. AT THE FOLLOWING LOCATIONS:

STA. 589+00 TO STA. 602+20 STA 729+00 TO STA 742+20 -

NOTE: A 10' WIDE STRIP OF EXISTING PAVEMENT ADJACENT TO THE PHASE LINE SHALL BE MILLED 2" +/- FROM STA. 729+00 TO STA. 732+00 TO MAINTAIN APPROXIMATELY EQUAL EXISTING AND PROPOSED ELEVATIONS.

THE LOCATION OF THE TEMPORARY PULL-OFF MAY BE ADJUSTED AT THE DIRECTION OF THE ENGINEER. THE COSTS FOR ALL SIGNING, MATERIALS, AND EQUIPMENT NECESSARY TO PLACE THE TEMPORARY PULL-OFF SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 - MAINTAINING TRAFFIC.

PHASE 2A:

SHIFT I-71 SOUTHBOUND LANES ONTO COMPLETED INSIDE LANE AND SHOULDER OF SOUTHBOUND I-71 CONSTRUCTED DURING PHASE 1.

CLOSE INSIDE PORTION OF EXIT RAMP B. SHIFT TRAFFIC ONTO OUTSIDE PORTION OF RAMP B AND TEMPORARY RAMP PAVEMNT.

CLOSE INSIDE PORTION OF ENTRANCE RAMP A. SHIFT TRAFFIC ONTO OUTSIDE PORTION OF RAMP A.

I-71 NORTHBOUND SHALL REMAIN IN EXISTING CONFIGURATION.

CONSTRUCT PROPOSED AREA OF I-71 SOUTHBOUND, RAMP A AND RAMP B AS SHOWN IN THE PLANS.

CONSTRUCT TEMPORARY PAVEMENT FOR RAMP A WIDENING.

PHASE 2B:

I-71 SOUTHBOUND LANES SHALL REMAIN IN PHASE 2A CONFIGURATION.

CLOSE OUTSIDE PORTION OF EXIT RAMP B. SHIFT TRAFFIC ONTO INSIDE PORTION OF RAMP B CONSTRUCTED IN PREVIOUS PHASE.

CLOSE OUTSIDE PORTION OF ENTRANCE RAMP A. SHIFT TRAFFIC ONTO INSIDE PORTION OF RAMP A CONSTRUCTED IN PREVIOUS PHASE AND TEMPORARY PAVEMENT.

I-71 NORTHBOUND SHALL REMAIN IN EXISTING CONFIGURATION.

CONSTRUCT REMAINING PROPOSED AREA OF I-71 SOUTHBOUND. RAMP A AND RAMP B AS SHOWN IN THE PLANS.

WINTER 2024:

THE PROJECT SHALL ENTER A WINTERIZATION PHASE BY OCTOBER 1, 2024 WHICH SHALL CONSTITUTE AN INTERIM COMPLETION DATE. NORTHBOUND TRAFFIC SHALL REMAIN IN EXISTING CONFIGURATION. SOUTHBOUND TRAFFIC SHALL BE RECONFIGURED TO THE PROPOSED THREE LANE CONFIGURATION. NORTHBOUND RAMPS SHALL REMAIN IN EXISTING CONFIGURATION. SOUTHBOUND RAMPS SHALL BE OPENED IN FINAL CONFIGURATION.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY IN ORDER TO COMPLETE THIS WORK:

ITEM 614 - WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN - <u>734</u> EACH ITEM 648 - EDGE LINE, WHITE, 6" - <u>8.33</u> MILES ITEM 648 - EDGE LINE, YELLOW, 6" - <u>8.33</u> MILES ITEM 648 - LANE LINE, 6" - <u>16.66</u> MILES ITEM 648 - CHANNELINZING LINE, 12" - 1570 FEET ITEM 648 - DOTTED LINE, 6" - 1622 FEET

PRE-PHASE 3:

PRIOR TO THE START OF PHASE 3. THE NORTHBOUND MEDIAN CROSSOVERS AND THE NORTHBOUND TEMPORARY RAMP ACCESS FOR RAMPS C & D MUST BE COMPLETE ALONG WITH ALL SHOULDER RECONSTRUCTION AND TEMPORARY PAVEMENT ON RAMPS C & D IF NOT PREVIOUSLY COMPLETED.

ANY PRE-PHASE 3 WORK THAT IMPACTS TRAVEL LANES SHALL BE COMPLETED BY UTILIZING NIGHTTIME LANE CLOSURES PER ODOT SCD MT-95.30. THE LANE CLOSURES MAY ONLY BE IMPLEMENTED DURING HOURS ALLOWED AS LISTED IN THIS PLAN.

PHASE 3A:

CLOSE INSIDE LANE OF I-71 SOUTHBOUND SHIFT REMAINING TWO SOUTHBOUND LANES ONTO OUTSIDE SHOULDER AND OUTSIDE LANE.

I-71 NORTHBOUND LANES SHALL REMAIN ON CONSTRUCTED I-71 SOUTHBOUND INSIDE SHOULDER AND LANES MATCHING PART 2.

USE SOUTHERN PORTION OF TEMPORARY RAMP C ACCESS TO MAINTAIN RAMP TRAFFIC. CLOSE INSIDE PORTION OF RAMP C. SHIFT TRAFFIC ONTO OUTSIDE PORTION OF RAMP C.

CLOSE INSIDE PORTION OF RAMP D. SHIFT TRAFFIC ONTO OUTSIDFE PORTION OF RAMP D. USE NORTHERN PORTION OF TEMPORARY ENTRANCE RAMP D ACCESS TO MAINTAIN RAMP TRAFFIC.

CONSTRUCT PROPOSED AREAS OF I-71 NORTHBOUND, INSIDE AREA OF RAMP A, AND INSIDE AREA OF RAMP D.

CONSTRUCT TEMPORARY PAVEMENT FOR RAMP D WIDENING.

PHASE 3B:

I-71 NORTHBOUND AND SOUTHBOUND LANES. SHIFTS AND CROSSOVES SHALL REMAIN IN PHASE 3A CONFIGURATION.

USE NORTHERN PORTION OF TEMPORARY EXIT RAMP C ACCESS TO MAINTAIN RAMP TRAFFIC. CLOSE OUTSIDE PORTION OF RAMP C. SHIFT TRAFFIC ONTO INSIDE PORTION OF RAMP C.

CLOSE OUTSIDE PORTION OF RAMP D. SHIFT TRAFFIC ONTO INSIDE PORTION OF RAMP D AND TEMPORARY PAVEMENT. USE SOUTHERN PORTION OF TEMPORARY ENTRANCE RAMP D ACCESS TO MAINTAIN RAMP TRAFFIC.

COMPLETE CONSTRUCTION OF PROPOSED AREAS OF I-71 NORTHBOUND, OUTSIDE AREA OF RAMP A, AND OUTSIDE AREA OF RAMP D.

WINTER 2025:

THE PROJECT SHALL ENTER A WINTERIZATION PHASE BY OCTOBER 1, 2025 WHICH SHALL CONSTITUTE AN INTERIM COMPLETION DATE, ALL TRAFFIC SHALL BE OPENED IN FINAL CONFIGURATION AND MAINTAINED ON INTERMEDIATE COURSE. PAVEMENT MARKINGS SHALL BE PLACED IN THEIR FINAL LOCATIONS PER THE TRAFFIC CONTROL PLAN.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY IN ORDER TO COMPLETE THIS WORK:

ITEM 614 - WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN - <u>1434</u> EACH ITEM 648 - EDGE LINE, WHITE, 6" - 16.27 MILES ITEM 648 - EDGE LINE, YELLOW, 6" - 16.27 MILES ITEM 648 - LANE LINE, 6" - 32.54 MILES ITEM 648 - CHANNELINZING LINE, 12" - 3140 FEET ITEM 648 - DOTTED LINE, 6" - <u>3216</u> FEET

SHOULD WORK DELAY AND FULL COMPLETION OF PHASE 3 WORK FOR PART 1 AND PART 2 NOT BE ACHIEVABLE. THE CONTRACTOR MAY IMPLEMENT A CROSSOVER NEAR THE SOUTHERN LIMIT OF PART 1 AT THE APPROVAL OF THE ENGINEER. THE CROSSOVER WILL RETURN NORTHBOUND TRAFFIC FROM PHASE 3 TO THE COMPLETED NORTHBOUND PAVEMENT. ALL COSTS TO CONSTRUCT THE TEMPORARY CROSSOVER INCLUDING ADDITIONAL STRIPING. SIGNING AND TEMPORARY PAVEMENT SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 -MAINTAINING TRAFFIC.

SR-56 SHALL REMAIN OPEN AT ALL TIMES UTILIZING THE EXISTING LANE CONFIGURATION OR SIGNALIZED BIDIRECTIONAL TRAFFIC AS SHOWN IN THE PLANS. CONSTRUCTION OF THE SR-56 STRUCTURE MAY OCCUR AT ANY TIME DURING THE PROJECT. THE CONTRACTOR SHALL COORDINATE MAINTENANCE OF TRAFFIC NEEDS ALONG SR-56 WITH NECESSARY RAMP WORK AT THE INTERCHANGE. SHOULD THE RAMPS BE COMPLETE PRIOR TO THE STRUCTURE WORK, THE CONTRACTOR SHALL ADJUST THE TEMPORARY SIGNAL LAYOUT TO MATCH THE PROPOSED RAMPS.

Z 58:05 30/0.00 MAD/PIC-71-7

<u>PHASE 4:</u>

AT THE CONCLUSION OF THE 2025 WINTER PHASE. COMPLETE ANY REMAINING FULL DEPTH RECONSTRUCTION WORK. THE REMAINING EXISTING I-71 PAVEMENT THAT IS TO BE RESURFACED (OUTSIDE THE FULL DEPTH LIMITS) SHALL BE MILLED TO THE DEPTH SPECIFIED IN THE PLANS. THE FINAL WEARING COURSE OF BOTH NEWLY CONSTRUCTED AND EXISTING MILLED PAVEMENTS SHALL THEN BE INSTALLED. ONCE COMPLETED. FINAL PAVEMENT MARKINGS SHALL BE APPLIED PER THE TRAFFIC CONTROL PLANS. THIS WORK SHALL BE COMPLETED BY UTILIZING ODOT SCD MT-97.11. IN ADDITION TO THIS WORK, THE MEDIAN CABLE BARRIER SHALL BE INSTALLED PER THE ROADWAY PLANS AND TEMPORARY PAVEMENT SHALL BE REMOVED BY UTILIZING ODOT SCD MT-95.45 EXCEPT DRUMS MAY BE USED IN THE PLACE OF PCB AS LONG AS DROP-OFF REQUIREMENTS ARE MET (PER

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY IN ORDER TO COMPLETE THIS WORK:

ITEM 614- WORK ZONE EDGE LINE, CLASS III, WHITE, 6", 642 PAINT -16.27 MILES

ITEM 614 - WORK ZONE EDGE LINE, CLASS III, YELLOW, 6", 642 PAINT - <u>16.27</u> MILES

ITEM 614 - WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT - 32.54 MILES

ITEM 614 - WORK ZONE CHANNELINZING LINE, CLASS III, 12", 642 PAINT - <u>3140</u> FEET

ITEM 614 - WORK ZONE DOTTED LINE, CLASS III, 6" - <u>3216</u> FEET

OVERHEAD STRUCTURE CONSTRUCTION:

OVERHEAD BRIDGE CONSTRUCTION SHALL OCCUR AT ANY TIME DURING THE PROJECT. SIDE ROADS SHALL BE CLOSED AND DETOURED AS SHOWN IN THE PLANS. THE CONTRACTOR SHALL COORDINATE MAINTENANCE OF TRAFFIC NEEDS ALONG I-71 WITH THE RESPECTIVE PHASE OF I-71 MAINTENANCE OF TRAFFIC.



					S	HEET NU	М.				PA	RT.		ITEM	GRAND		
	655	656									03/IMS/11	04/IMS/10	ITEM	EXT	TOTAL	UNIT	DESC
											<u> </u>						STRUCTURE OVER 20 F
	LS										LS	LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS
	216									 	147	69	202	22900	216	SY	APPROACH SLAB REMOVED
	LS										LS	LS 209	503	21100	LS	CV.	
	1,293										880	413	503	11101	1.293	SF	STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN (ELASTIC SE
	1,200											110			1,200	0.	
	LS										LS	LS	505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION
	3,790									 	2,578	1,212	507	00200	3,790	FT	STEEL PILES HP12X53, FURNISHED
	3,330	5								 	2,265	1,065	507	00250	3,330	FT	STEEL PILES HP12X53, DRIVEN
	57 210	5									38 903	54,315 18 307	509	10000	57 210		
	07,210	,										10,001	000	10001	01,210	20	
	8,702										5,918	2,784	509	30020	8,702	FT	NO. 4 GFRP DEFORMED BARS
	447										304	143	511	34446	447	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK
	86										59	27	511	34451	86	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET),
	260										177	83	511	40513	260	CY	CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS, A
	147										100	4/	511	43512	147	CT	CLASS QCT CONCRETE WITH QC/QA, ABOTMENT INCLUDING FC
	192										131	61	511	46512	192	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING
	1,331										906	425	512	10100	1,331	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
	28										20	8	512	33000	28	SY	TYPE 2 WATERPROOFING
	441,500	0									300,220	141,280	513	10241	441,500	LB	STRUCTURAL STEEL MEMBERS, LEVEL 2, AS PER PLAN
	7,872										5,353	2,519	513	20000	7,872	EACH	WELDED STUD SHEAR CONNECTORS
		\neg									974	458	514	00061	1432	SE	FIELD PAINTING STRUCTURAL STEEL INTERMEDIATE COAT AS
	1,102	1									974	458	514	00067	1,432 T	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT, AS PER PLA
		1									1 Jan	36	516	10010		FT	ARMORLESS PREFORMED JOINT SEAL
	100										68	32	516	13200	100	SF	1/2" PREFORMED EXPANSION JOINT FILLER
	120										82	38	516	13600	120	SF	1" PREFORMED EXPANSION JOINT FILLER
	40										24	15	E10	12000	40	05	
	139										95	44	516	13900	139	5F FT	INTEGRAL ABUTMENT EXPANSION JOINT FILLER
	160										11	5	516	44100	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD
	16										11	5	516	44201	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD
	10										7	3	518	12301	10	EACH	SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN
	400												540		400		
	123										115	39 53	518	21200	123	CY ET	
	80										55	25	518	40000	80	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE
	2										2		523	20000	2	EACH	DYNAMIC LOAD TESTING
	330										225	105	526	25011	330	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15
	114										78	36	526	90031	114	FT	TYPE C INSTALLATION, AS PER PLAN
	295										201	Q4	601	32200	295	CY	
	200										201	54	001	02200	233	01	
											-						STRUCTURE OVER 20 F
=		LS									LS	LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS
corne		216									147	69	202	22900	216	SY	APPROACH SLAB REMOVED
E 2	_	LS									LS 565	265	503	21100	LS	CV	
USE	4.dgr	LS										LS	505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION
Md	3610																
44:0	630	3,790									2,578	1,212	507	00200	3,790	FT	STEEL PILES HP12X53, FURNISHED
1 1 1	\$107	3,330							-		2,265	1,065	507	00250	3,330	FT	STEEL PILES HP12X53, DRIVEN
4	sheet	209,967									142,778	67,189	509	10000	209,967	LB	EPOXY COATED REINFORCING STEEL
0	waylo	8 702									5 918	2 784	509	30020	8 702	LD FT	NO 4 GERP DEFORMED BARS
O IN	Road	0,702									0,010	2,704	000	00020	0,702		
	Nguing	447									304	143	511	34446	447	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK
30	dinee	86									59	27	511	34451	86	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET),
	, щ о	260								 	177	83	511	40513	260	CY	CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS, A
	330/4(147					-			-	100	47	511	43512	147	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FC
	1076	192									131	61	511	46512	192	UΥ	ULASS QUT UUNUKETE WITH QU/QA, FOUTING
<u> </u>	ksets	1.331	1	1				1	1	1	906	425	512	10100	1.331	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANF)
	Mo	18									13	5	512	33000	18	SY	TYPE 2 WATERPROOFING
		441,500									300,220	141,280	513	10241	441,500	LB	STRUCTURAL STEEL MEMBERS, LEVEL 2, AS PER PLAN
	ō	1 (872	┪								5,353	2,510	513	20000	7 ,87 2	EACH	WELDED STUD SHEAR CONNECTORS
≤ گ	: с	Y 1,432	<u>y</u>		l					1	(974	458	514	00061		SF	THELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT, AS
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	SEE	
CRIPTION	SHEET NO.	
COOT SDAN (MAD 74 00 7401)		
S PER PLAN	653,657-658, 660-663	
	050 000	
	653, 660	
ECTION MODULUS = 18.1 CU IN/FT)	660	
	676, 689	
, AS PER PLAN	698	
AS PER PLAN	676	
DOTING		
	690	I ₹
		Į
	602	5
AN	683	ပ
		Z
) PLATE (NEOPRENE) (13" x 18" x 2.499")		
D PLATE (NEOPRENE), AS PER PLAN (11" x 14" x 3.398")	680	
	690	
	660 672	
SPECIALS, AS PER PLAN	009,073	
5"), AS PER PLAN	698	
	698	
	664	
OOT SPAN (MAD-71-08.740R)		
S PER PLAN	653,657-658, 660-663	
	653, 660	
	678	DESIGN AGENCY
	0,0	
, AS PER PLAN	698	E.L. ROBINSON
AS PER PLAN	678	L N G I N E E R I N G 1468 West 9th St, Suite 800 Cleveland, Ohio
DOTING		Grandview Heights, Ohio
		CJS
		ACF 04/26/22
	690	PROJECT ID 107630
		SHEET TOTAL
PER PLAN	683	P.117 1003

				SHEET N	UM.				PA	RT.		ITEM	GRAND			SEE	
656	709	710							03/IMS/11	04/IMS/10	ITEM	EXT	TOTAL	UNIT	DESCRIPTION	SHEET NO.	
m								(\sim	\sim			\sim		STRUCTURE OVER 20 FOOT SPAN (MAD-71-08.740R) - CONT.		
1,432	Į								974	458	514	00067	(1,432	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT, AS PER PLAN	683	4
						 			\mathcal{Q}		516	10010		FT			4
100									68	32	516	13200	100	SF	2" PREFORMED EXPANSION JOINT HILLER		
49									34	- 30 - 15	516	13900	49	SF	1 PREFORMED EXPANSION JOINT FILLER		
-10										10	010	10000		01			
139									95	44	516	14014	139	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL		
16									11	5	516	44100	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13" x 18" x 2.499")		
16									11	5	516	44201	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11" x 14" x 3.398")	31	
123									84	39	518	21200	123	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC		4
168									115	53	518	40000	168	FI	6" PERFORATED CORRUGATED PLASTIC PIPE		4
50									3/	16	518	40011	50	FT		671 675	-
330						 			225	105	526	25011	330	SY	REINFORCED CONCRETE APPROACH SI ABS WITH QC/QA (T=15") AS PER PLAN	698	-
114									78	36	526	90031	114	FT	TYPE C INSTALLATION, AS PER PLAN	698	
295									201	94	601	32200	295	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER		
															STRUCTURE OVER 20 FOOT SPAN (PIC-71-00.460L)		
	LS	1					-		LS	LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	708, 711	1 、
	222		╡──┤─			 			151	71	202	22900	222	SY	APPRUACH SLAB REMOVED		
L	LS 272		+			 			186	L5 97	503	21100	LS 273	CV			4 4
	576								392	184	504	11101	576	SE	STEEL SHEET PILING LEET IN PLACE AS PER PLAN (SECTION MODULUS = 18.1 IN3/ET)	708	Σ
									002				010				Σ
	LS								LS	LS	505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION		
	1,620								1,102	518	507	00600	1,620	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN		
	1,740								1,184	556	507	00650	1,740	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED		∃ ₹
	24								17	7	507	93300	24	EACH	STEEL POINTS OR SHOES		2
	82,143					 			55,858	26,285	509	10000	82,143	LB	EPOXY COATED REINFORCING STEEL		4 4
	4,966								3,377	1,589	509	30020	4,966	FI	NO. 4 GERP DEFORMED BARS		
	392								267	125	511	34446	392	CY	CLASS OC2 CONCRETE WITH OCIDA, BRIDGE DECK		0
	48								33	120	511	34451	48	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN	741	1
	193								132	61	511	43512	193	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING		-
	512								349	163	512	10100	512	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		
	25								17	8	512	33000	25	SY	TYPE 2 WATERPROOFING		
																	4
	8								6	2	515	15100	8	EACH	DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE WF54-49 (LENGTH = 122'-4")		4
	21								15	6	515	20000	21	EACH			-
	137								94	43	516	13200	137	SF	2" PREFORMED EXPANSION JOINT FILLER		-
	150								102	48	516	13900	150	SF	2" PREFORMED EXPANSION JOINT FILLER		1
	100								102	10	010	10000	100	01			
	156								107	49	516	14014	156	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL		1
	16								11	5	516	44001	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (18"x10"x1.75" W/ LOAD PLATE ASSEMBLY)	725	
	7								5	2	518	12301	7	EACH	SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN	735	1
	137								94	43	518	21200	137	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC		4
	190		-						130	60	518	40000	190	FT	6" PERFORATED CORRUGATED PLASTIC PIPE		-
	60	+	┼──┼─						/1	10	518	40011	60	FT		718 700	1
	2	-	+				+		2	19	523	20000	2	FACH	DYNAMIC I OAD TESTING	/ 10, / 22	1
	330	1							225	105	526	25000	330	SY	REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN	741	1
	129						1		88	41	526	90010	129	FT	TYPE A INSTALLATION	,	1
	313								213	100	601	32200	313	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER		1
	54								37	17	846	00110	54	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM		1
																	DESIGN ACENCY
]	 									STRUCTURE OVER 20 FOOT SPAN (PIC-71-00.460R)		DEGIGIN AGENC
		LS				 			LS	LS	202	11203	LS	01/	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	708	
		222	┥──┤				-		151	/1	202	22900	222	SY			
		272	+			 			186	L5 97	503	21100	LS 273	CV			
		LS					+		LS	LS	505	11100	LS	01	PILE DRIVING EQUIPMENT MOBILIZATION		ENGINEE 1468 Wast Other
																	Grandview Heigl
	1	1,620					1	1	1,102	518	507	00600	1,620	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN		DESIGNER
		1,740				 			1,184	556	507	00650	1,740	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED		
		24							17	7	507	93300	24	EACH	STEEL POINTS OR SHOES		ACF 04/2
		82,509	ļ []				56,107	26,402	509	10000	82,509	LB	EPOXY COATED REINFORCING STEEL		PROJECT ID
		4,966							3,377	1,589	509	30020	4,966	FT			10763
		388	┥──┤			 			264	124	511	34446	388	CY		744	SHEET TO
1	1	48				1	1	1	33	15	511	34451	48	CY	LUASS QUZ CUNCRETE WITH QU/QA, BRIDGE DEUK (PARAPET), AS PER PLAN	/41	

MAD/PIC-71-7.30/0.00

				ę	SHEET NU	M.						PART.			ALT		ITEM	GRAND		
	11	12	13	14	15	16	17	33	869	01/IMS/04	02/IMS/03	03/IMS/11	04/IMS/10	05/IMS/14	(X)	ITEM	EXT	TOTAL	UNIT	
																				STRUCTURE
									55					55		601	20001	55	SY	CRUSHED AGGREGATE SLOPE PROTEC
									642					642		607	39900	642	FT	VANDAL PROTECTION FENCE, 6' STRAIG
		_				-			1					1		625	33000	1	EACH	STRUCTURE GROUNDING SYSTEM
									320					320		840	23000	320		
									14					14		843	50000	14	SE	PATCHING CONCRETE STRUCTURES WI
									1.568					1.568		863	00100	1.568	SY	GEOGRID. TYPE P1
														,				, , , , , , , , , , , , , , , , , , ,		,
																				STRUCTURE OVI
		-				-			122,095					122,095	X	509	10000	122,095	LB	EPOXY COATED STEEL REINFORCEMEN
									11,484					11,484	X	509	30020	11,484		NO. 4 DEFORMED GERP REINFORCEMEN
									29,781					29.781	x	509	10000	29,781	LB	EPOXY COATED STEEL REINFORCEMEN
									33,180					33,180	X	509	30020	33,180	FT	NO. 4 DEFORMED GFRP REINFORCEMEN
									54,085					54,085	Х	509	30030	54,085	FT	NO. 5 DEFORMED GFRP REINFORCEMEN
									26,855					26,855	Х	509	30040	26,855	FT	NO. 6 DEFORMED GFRP REINFORCEMEN
																				MAINTENANCE OF TRAFFIC
						1 500		3,390		2,306	1,084					411	10000	3,390		
					2	1,500				1,020	400					SPECIAL	61411300	1,300	FACH	
					2					2							01411300	2	LAOIT	
				10,378						7,058	3,320					614	11630	10,378	FT	INCREASED BARRIER DELINEATION
								412.5		281	131.5					SPECIAL	61412200	412.5	FT	WORK ZONE GUARDRAIL
							3	22		17	8					614	12380	25	EACH	WORK ZONE IMPACT ATTENUATOR, 24" V
										LS	LS					614	12420	LS	FAOL	DETOUR SIGNING
		39	10							27	12					614	12484	39		WORK ZONE INCREASED PENALTIES SIC
			300							204	96					614	12500	300	EACH	REPLACEMENT DRUM
																•				
		3								3						614	12756	3	EACH	WORK ZONE CROSSOVER LIGHTING SYS
			2,065				2,168			2,879	1,354					614	12801	4,233	EACH	WORK ZONE RAISED PAVEMENT MARKE
			07	3,288						2,236	1,052					614	13310	3,288	EACH	BARRIER REFLECTOR, TYPE 1 (ONE-WA
			97	1.836						1 315	618					614	13350	97	FACH	OBJECT MARKER ONE WAY
			57	860						585	275					614	13360	860	EACH	OBJECT MARKER, TWO WAY
			72							49	23					614	18601	72	SNMT	PORTABLE CHANGEABLE MESSAGE SIG
						\vdash	\sim	<u> </u>	$\uparrow \sim$			$h \sim$	\sim	$h \sim$	\sim		20056			WORKZOVELANELINELOLASS LO", 807
						\vdash	32.54	10.4		23	9.54					614	20560	32.54		WORK ZONE LANE LINE, CLASS III, 6", 64
							\sim	89.13	$\overline{)}$	61	28 13	$r \sim$	$\overline{\mathcal{P}}$	$p \sim$	\sum	614	22056	89.13		WORK ZONE EDGE LINE CLASS I 6" 807
						($\uparrow \uparrow \uparrow$	183	$\uparrow \uparrow \uparrow$		10.52		$\uparrow \uparrow \uparrow$	r	$\uparrow \uparrow \uparrow$	614	1 12100	1.63	MILEY	WORK YONY EDGE LINE, CLASS I, A, 644
						1 (32,54		\	22.13	10,41		\			614	22360	32.54	, MILE,	WORK ZQNE EDGE LINE, CLASS III, 6", 64
						($\vdash \hspace{-1.5mm} \swarrow \hspace{-1.5mm} \checkmark$	$\checkmark \checkmark \checkmark \land \land$	$\uparrow \checkmark \checkmark$		12,10	$\not\leftarrow$	\swarrow	$\nvdash \checkmark \checkmark$	\swarrow			t to serve	$\uparrow \uparrow \uparrow \uparrow \uparrow$	WORKZONE CHARMNELIZIAG UME ZELAZ
						+	3,140	4.4	دحد	2,136			<u></u>	<u></u>	<u></u>		23690	3,140		WORK ZONE CHANNELIZING LINE, CLAS
						-	3 216	710,000	Y Y Y	2 187	1 029	YYY		r r r		614	24612	3 216		WORK ZONE DOTTED LINE CLASS III 6"
							۲	\downarrow	$\mathbf{b}\mathbf{c}$			$\overline{\mathbf{\nabla}}$	$\overline{\mathcal{M}}$	\square	$\overline{\mathcal{M}}$		126200	حترتها		WORKZONE STOPLINE SLASS 1, 842 A
rmett	45									31	14					614	32658	45	EACH	WORK ZONE SPEED MEASUREMENT MA
mco										LS	LS					615	10000	LS		ROADS FOR MAINTAINING TRAFFIC
JSER	dg							15,308		10,410	4,898					615	20000	15,308	SY	PAVEMENT FOR MAINTAINING TRAFFIC,
AM	3110	1 320						44,333		30,147	14,186					615	20001	44,333	SY MGAL	PAVEMENT FOR MAINTAINING TRAFFIC,
25:36	0 	1,520								030	422					010	10000	1,320	MOAL	
12.2	1076							35.44		25	10.44					618	41000	35.44	MILE	RUMBLE STRIPES, EDGE LINE (ASPHALT
E ME	eets							1		1						622	41050	1	EACH	PORTABLE BARRIER, "Y" CONNECTOR
023	ay/Sh							132,382		90,020	42,362					622	41011	132,382	FT	PORTABLE BARRIER, 50", AS PER PLAN
00	Dadwa					-		1,992		1,355	637					622	41110	1,992	FT	PORTABLE BARRIER, ANCHORED
jo 🗑	ng/Re	392								267	125					808	18700	392	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEM
lõ ₁		1		60						41	19					829	00100	60	SNMT	WORK ZONE EGRESS WARNING SYSTEM
		1	1			1				1	1									
17×1	0/400									LS	LS	LS	LS	LS		108	10000	LS		CPM PROGRESS SCHEDULE
ŻE Ż	LS LS	1								LS	LS	LS	LS	LS		614	11000	LS		MAINTAINING TRAFFIC
	sets/1									12	6	12	6	4		619	16020	40	MNTH	FIELD OFFICE, TYPE C
ľď _∛	Nork															62/	10000			
		1								LS	LS	LS	LS	LS		878	25000	LS		INSPECTION AND COMPACTION TESTING
 	Here and the second sec	1		1					1	39,000	19,500	39,000	19,500	13,000		100	51100	130,000	EACH	DEPARTMENT'S SHARE OF THE DISPUTE
2 ⅔	ä'									3,675	1,838	3,675	1,837	1,225		SPECIAL	11110100	12,250	EACH	DEPARTMENTS SHARE FACILITATED PAR

DESCRIPTION	SEE	
	SHEET NO.	
OVER 20 FOOT SPAN (PIC-71-0278) - CONT.		
TION, AS PER PLAN	868	
HT, COATED FABRIC		
ER 20 FOOT SPAN (PIC-/1-02/8) ALTERNATES		
NT (ALTERNATE 1)		
T (ALTERNATE 2)		
NT (ALTERNATE 2)		
NT (ALTERNATE 2)		
T OFFICER WITH PATROL CAR FOR ASSISTANCE	15	≻
	10	Ϋ́Υ Ϋ́
	14	MM
MDE HAZARDS, (UNIDIRECTIONAL)		
GN		
		IAI
STEM		Z
R, AS PER PLAN	13	Щ Ш
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	10	
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7 PAINT		
2 PAINT Y		
HAT TAINT		
S III, 12", 642 PAINT		
server has		
RKING, CLASS I, 642 PAINT		
CLASS A	16	
CLASS A, AS FEIX FLAIN	10	
CONCRETE)		
	16	DESIGN AGENCY
BLY		
Λ		E.L. ROBINSON
INCIDENTALS		ENGINEERING 1468 West 9th St, Suite 800 Cleveland Ohio
		950 Goodale Blvd, Suite 180 Grandview Heights, Ohio DESIGNER
		CJS
URVEYING		REVIEWER ACF 04/26/22
		PROJECT ID
ERESOLUTION BOARD		107630 SHEET TOTAL
RTNERING COSTS		P.123 1003

	A/GA DAT	6/24/2021						
CHECKED BY: BCW	MRV DAT	6/24/2021	ESTIMATED QUANTITIES - LEFT BRIDGE					STRUCTURAL FILE NUMBER: 4903391
TEM EXTENS	ION TOTAL	UNIT	DESCRIPTION	ABUT.	PIER	SUPER.	GEN.	REFERENCE SHEET NO.
02 11203	B LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LUMP	4, 8, 9, AND 11-14 OF 55
02 2290	216	SY	APPROACH SLAB REMOVED				216	
i03 1110 [.]	LUMP		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN				LUMP	4 AND 11 OF 55
603 21100	963	CY	UNCLASSIFIED EXCAVATION	198	765			
504 1110	1 1 293	SE	STEEL SHEET PILING LEET IN PLACE AS PER PLAN (ELASTIC SECTION MODULUS = 18.1 CLUN/ET)				1 293	11 OF 55
	1,200	0,					1,200	11 01 00
505 11100) LUMP		PILE DRIVING EQUIPMENT MOBILIZATION				LUMP	
507 0020	3,790	FT	STEEL PILES HP12X53, FURNISHED	990	2,800			
507 0025	3,330	FT	STEEL PILES HP12X53, DRIVEN	880	2,450			
509 1000) 169.735	LB	EPOXY COATED REINFORCING STEEL	15.367	62.375	91,993		
509 1000	1 57,210	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN		15,887	41,323		27 AND 40 OF 55
509 3002	0 8,702	FT	NO. 4 GFRP DEFORMED BARS			8,702		
511 3444	3 447	СҮ	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK			447		
511 3445	1 86	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN			86		49 OF 55
511 4051	3 260	CY	CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS, AS PER PLAN	147	260			27 OF 55
511 4351 511 4651	2 192	CY	CLASS QCT CONCRETE WITH QC/QA, ADD TIMENT INCLUDING FOOTING	147	192			
512 1010 512 3300	$\frac{1,331}{28}$	SY SV	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	80	675	56	520	
012 0000	20	01		20				
513 1024	1 441,500	LB	STRUCTURAL STEEL MEMBERS, LEVEL 2, AS PER PLAN			441,500		41 OF 55
513 2000	/,8/2	EACH	WELDED STUD SHEAR CONNECTORS			7,872		
514 0006	1 1,432	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT, AS PER PLAN			1,432		34 OF 55
514 0006	7 1,432) SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT, AS PER PLAN			1,432		34 OF 55
516 1001	114	FT	ARMORIESS PREFORMED IDINT SEAL			$\neg \mathcal{N}$	114	
516 1320	0 100	SF	½" PREFORMED EXPANSION JOINT FILLER	100				
516 1320 516 1360 516 1360	0 100 0 120	SF SF	½" PREFORMED EXPANSION JOINT FILLER 1" PREFORMED EXPANSION JOINT FILLER	100 100			20	
516 1320 516 1360 516 1390 516 1390 516 1401) 100) 120) 49 4 139	SF SF SF FT	½" PREFORMED EXPANSION JOINT FILLER 1" PREFORMED EXPANSION JOINT FILLER 2" PREFORMED EXPANSION JOINT FILLER INTEGRAL ABUTMENT EXPANSION JOINT SEAL	100 100 49 139			20	
516 13200 516 13600 516 13900 516 1401 516 44100	100 120 120 139 16	SF SF SF FT EACH	½" PREFORMED EXPANSION JOINT FILLER 1" PREFORMED EXPANSION JOINT FILLER 2" PREFORMED EXPANSION JOINT FILLER INTEGRAL ABUTMENT EXPANSION JOINT SEAL ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13"x18"x2.499")	100 100 49 139	16		20	
516 1320 516 1360 516 1390 516 1401 516 4410 516 4420	100 120 49 4 139 16 16	SF SF FT EACH EACH	%2" PREFORMED EXPANSION JOINT FILLER 1" PREFORMED EXPANSION JOINT FILLER 2" PREFORMED EXPANSION JOINT FILLER INTEGRAL ABUTMENT EXPANSION JOINT SEAL ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13"x18"x2.499") ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11"x14"x3.398")	100 100 49 139 16	16		20	31 OF 55
516 1320 516 1360 516 1390 516 1401 516 4410 516 4420 518 1230	100 120 49 4 139 16 1 16 1	SF SF FT EACH EACH EACH	%2" PREFORMED EXPANSION JOINT FILLER 1" PREFORMED EXPANSION JOINT FILLER 2" PREFORMED EXPANSION JOINT FILLER INTEGRAL ABUTMENT EXPANSION JOINT SEAL ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13"x18"x2.499") ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11"x14"x3.398") SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN	100 100 49 139 16	16	10	20	31 OF 55 41 OF 55
516 1320 516 1360 516 1390 516 1401 516 4410 516 4420 518 1230 518 2120 519 2120	100 120 120 120 139 16 1 16 1 100 120 120 120 120 120 120 120 121 122 123 123	SF SF FT EACH EACH EACH	%2" PREFORMED EXPANSION JOINT FILLER 1" PREFORMED EXPANSION JOINT FILLER 2" PREFORMED EXPANSION JOINT FILLER INTEGRAL ABUTMENT EXPANSION JOINT SEAL ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13"x18"x2.499") ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11"x14"x3.398") SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN POROUS BACKFILL WITH GOTEXTILE FABRIC WITH GOTEXTILE FABRIC	100 100 49 139 16 16 123	16	10	20	31 OF 55 41 OF 55
516 1320 516 1360 516 1390 516 1401 516 4410 516 4420 518 1230 518 21200 518 21200 518 4000 518 4000 518 4000	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	SF SF FT EACH EACH EACH CY FT FT	Y2" PREFORMED EXPANSION JOINT FILLER 1" PREFORMED EXPANSION JOINT FILLER 2" PREFORMED EXPANSION JOINT FILLER INTEGRAL ABUTMENT EXPANSION JOINT SEAL ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13"x18"x2.499") ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13"x18"x2.499") ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11"x14"x3.398") SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN POROUS BACKFILL WITH GEOTEXTILE FABRIC 6" PERFORATED CORRUGATED PLASTIC PIPE 6" NON-PERFORATED CORRUGATED PLASTIC PIPE. INCLUDING SPECIALS, AS PER PLAN	100 100 49 139 16 16 123 168 80	16	10	20	31 OF 55 41 OF 55 20 AND 24 OF 55
516 1320 516 1360 516 1390 516 1401 516 4410 516 4420 518 1230 518 21200 518 4000 518 4000 518 4000	100 120 120 120 120 139 16 1 16 1 10 123 168 1880	SF SF FT EACH EACH EACH CY FT FT	Y2" PREFORMED EXPANSION JOINT FILLER Y2" PREFORMED EXPANSION JOINT FILLER 1" PREFORMED EXPANSION JOINT FILLER INTEGRAL ABUTMENT EXPANSION JOINT SEAL ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13"x18"x2.499") ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13"x18"x2.499") ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11"x14"x3.398") SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN POROUS BACKFILL WITH GEOTEXTILE FABRIC 6" PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN	100 100 49 139 16 16 123 168 80	16	10	20	31 OF 55 41 OF 55 20 AND 24 OF 55
516 1320 516 1360 516 1390 516 1401 516 4410 516 4420 518 1230 518 2120 518 4000 518 4000 518 2000 518 2000	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	SF SF FT EACH EACH CY FT FT FT EACH	Y2" PREFORMED EXPANSION JOINT FILLER Y2" PREFORMED EXPANSION JOINT FILLER 1" PREFORMED EXPANSION JOINT FILLER INTEGRAL ABUTMENT EXPANSION JOINT SEAL ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13"x18"x2.499") ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13"x18"x2.499") ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11"x14"x3.398") SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN POROUS BACKFILL WITH GEOTEXTILE FABRIC 6" PERFORATED CORRUGATED PLASTIC PIPE 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN DYNAMIC LOAD TESTING	100 100 49 139 16 16 123 168 80	16	10	20	31 OF 55 41 OF 55 20 AND 24 OF 55
516 1320 516 1360 516 1390 516 1401 516 4410 516 4420 518 1230 518 2120 518 4000 518 4000 518 2000 523 2000 526 2501	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	SF SF FT EACH EACH CY FT FT EACH SY	Y2" PREFORMED EXPANSION JOINT FILLER Y2" PREFORMED EXPANSION JOINT FILLER 2" PREFORMED EXPANSION JOINT FILLER INTEGRAL ABUTMENT EXPANSION JOINT SEAL ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13"x18"x2.499") ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11"x14"x3.398") SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN POROUS BACKFILL WITH GEOTEXTILE FABRIC 6" PERFORATED CORRUGATED PLASTIC PIPE 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN DYNAMIC LOAD TESTING REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN	100 100 49 139 16 16 123 168 80	16	10	20 20 2 2 330	31 OF 55 41 OF 55 20 AND 24 OF 55 49 OF 55
516 1320 516 1360 516 1390 516 1401 516 4410 516 4420 518 1230 518 21200 518 21200 518 4000 518 4000 518 2000 523 20000 526 2501 526 9003	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	SF SF FT EACH EACH CY FT FT FT EACH SY FT	INMODULED NUMBED Y2 PREFORMED Y2 PREFORATED Y2 PREFORATED Y2 PREFORATED Y2 PREFORATED Y2 PREFO	100 100 49 139 16 16 123 168 80	16	10	20 20 2 330 114	31 OF 55 41 OF 55 20 AND 24 OF 55 49 OF 55 49 OF 55
516 1320 516 1360 516 1390 516 1401 516 4410 516 4420 518 1230 518 2120 518 4000 518 4001 523 20000 526 2501 526 9003 2ECIAL 530002	100 120 120 120 120 120 120 120 139 16 1 16 1 10 123 168 180 100 123 168 130 168 1330 1 114 00 LUMP	SF SF FT EACH EACH CY FT FT EACH SY FT	Nindredowner Scuppers, Including Supports, AS PER PLAN Poroous Backrill with Geotextic Pipe, Including Specials, A	100 100 49 139 16 16 123 168 80	16	10	20 20 2 330 114 LUMP	31 OF 55 41 OF 55 20 AND 24 OF 55 49 OF 55 49 OF 55 15 OF 55
516 1320 516 1360 516 1390 516 1401 516 4410 516 4420 518 1230 518 2120 518 4000 518 4001 523 2000 526 2501 526 9003 ECIAL 530002	100 120 120 49 4 139 1 16 1 16 1 10 123 168 1 10 123 168 30 168 330 1 114 00 LUMP	SF SF FT EACH EACH CY FT FT EACH SY FT	Ninoricle Stransion Joint Filler 1" PREFORMED EXPANSION JOINT FILLER 2" PREFORMED EXPANSION JOINT FILLER 2" PREFORMED EXPANSION JOINT FILLER INTEGRAL ABUTMENT EXPANSION JOINT SEAL ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13"x18"x2.499") ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11"x14"x3.398") SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN POROUS BACKFILL WITH GEOTEXTILE FABRIC 6" PERFORATED CORRUGATED PLASTIC PIPE 6" NON-PERFORATED CORRUGATED PLASTIC PIPE 6" NON-PERFORATED CORRUGATED PLASTIC PIPE 6" NON-PERFORATED CORRUGATED PLASTIC PIPE 0 DYNAMIC LOAD TESTING REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN TYPE C INSTALLATION, AS PER PLAN STRUCTURES (TEMPORARY SUPPORT SYSTEM)	100 100 49 139 16 16 123 168 80 	16	10	20 2 2 330 114 LUMP	31 OF 55 41 OF 55 20 AND 24 OF 55 49 OF 55 49 OF 55 15 OF 55

UNDER VERSON UNDER VERSON DESCRIPTION OF CONTRACTOR DESCRIPTI			D.475.	6/04/2024						
Image Nome No No </th <th>MA CHECKED</th> <th>DE BY: DIA/GA DBY: BCW/MRV</th> <th>DATE: DATE:</th> <th>6/24/2021 6/24/2021</th> <th>ESTIMATED QUANTITIES - RIGHT BRIDGE</th> <th></th> <th></th> <th></th> <th>9</th> <th>STRUCTURAL FILE NUMBER: 4903421</th>	MA CHECKED	DE BY: DIA/GA DBY: BCW/MRV	DATE: DATE:	6/24/2021 6/24/2021	ESTIMATED QUANTITIES - RIGHT BRIDGE				9	STRUCTURAL FILE NUMBER: 4903421
No Op/C UNA Processing of the set of	ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIER	SUPER.	GEN.	REFERENCE SHEET NO.
MP MP <th< td=""><td>202</td><td>11203</td><td>LUMP</td><td></td><td>PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN</td><td></td><td></td><td></td><td>LUMP</td><td>4, 8, 9, AND 11-14 OF 55</td></th<>	202	11203	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LUMP	4, 8, 9, AND 11-14 OF 55
NA ON <	202	22900	216	SY	APPROACH SLAB REMOVED				216	
No No <thno< th=""> No No No<!--</td--><td>503</td><td>11101</td><td>LUMP</td><td>01/</td><td>COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN</td><td></td><td>00.4</td><td></td><td>LUMP</td><td>4 AND 11 OF 55</td></thno<>	503	11101	LUMP	01/	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN		00.4		LUMP	4 AND 11 OF 55
TA TO <	503	21100	830	CY	UNCLASSIFIED EXCAVATION	206	624			
non- train non- train <td>505</td> <td>11100</td> <td>LUMP</td> <td></td> <td>PILE DRIVING EQUIPMENT MOBILIZATION</td> <td></td> <td></td> <td></td> <td>LUMP</td> <td></td>	505	11100	LUMP		PILE DRIVING EQUIPMENT MOBILIZATION				LUMP	
07 030 130 0 0 030 130 0 030 130 0 030 130 <t< td=""><td>507</td><td>00200</td><td>3,790</td><td>FT</td><td>STEEL PILES HP12X53, FURNISHED</td><td>990</td><td>2,800</td><td></td><td></td><td></td></t<>	507	00200	3,790	FT	STEEL PILES HP12X53, FURNISHED	990	2,800			
000 1000 2010 010 0100 0	507	00250	3,330	FT	STEEL PILES HP12X53, DRIVEN	880	2,450			
Mode Mode <th< td=""><td>509</td><td>10000</td><td>209,967</td><td>LB</td><td>EPOXY COATED REINFORCING STEEL</td><td>15,377</td><td>61,618</td><td>132,972</td><td></td><td></td></th<>	509	10000	209,967	LB	EPOXY COATED REINFORCING STEEL	15,377	61,618	132,972		
200 1000	509	10001	16,014	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN		16,014			29 OF 55
61 Mail 47 77 Lass CCCONNECT INTERCENT AND CARDED CENTREMENT ALL PLANT 1 40 40 1 40	509	30020	8,702	FT	NO. 4 GFRP DEFORMED BARS			8,702		IË
NO NO<	511	34446	447	CY.	CLASS OC2 CONCRETE WITH OC/OA_BRIDGE DECK			447		
101 002 101 071 082 101 972 101 101 101 101 <td>511</td> <td>34451</td> <td>86</td> <td>CY</td> <td>CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN</td> <td></td> <td></td> <td>86</td> <td></td> <td>49 OF 55</td>	511	34451	86	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN			86		49 OF 55
111 680 470	511	40513	260	CY	CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS, AS PER PLAN		260			29 OF 55
11 470 <td>511</td> <td>43512</td> <td>147</td> <td>CY</td> <td>CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING</td> <td>147</td> <td></td> <td></td> <td></td> <td></td>	511	43512	147	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING	147				
100 1	511	46512	192	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING		192			o
No. No. No. No. No. No. No. No.										니쁘
100 100 10 10 10 10 10 10 10 100	512	10100	1,331	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	80	675	56	520	∐╘
197 2094 41.00 20000000 STREE (SERVICE AND ALL DEVENDENCE AND ALL DEVE	572	33000	18	51	ITTE 2 WAIERTRUUTING	18				
101 2000 1000 2000 10000 10000 10000	513	10241	441.500	LB	STRUCTURAL STEEL MEMBERS, LEVEL 2, AS PER PLAN			441.500		41 OF 55
No. Control Control <thcontrol< th=""> <thcontrol< th=""> <thcontr< td=""><td>513</td><td>20000</td><td>7,872</td><td>EACH</td><td>WELDED STUD SHEAR CONNECTORS</td><td></td><td></td><td>7,872</td><td></td><td></td></thcontr<></thcontrol<></thcontrol<>	513	20000	7,872	EACH	WELDED STUD SHEAR CONNECTORS			7,872		
141 052 53 FACD MANNES SERVICINAL STALL MANNESSER (2007 54). 102			\sim					\sim		l õ
317 5007 (102) 37 PEC DAWING STRUCTURES, TECE, TANGY CONTA SPETTALA Image: Contact Structure	514	00061	× 1,432	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT, AS PER PLAN			1,432		34 OF 55
158 000 111 T NUMBERS PERSON DUE TO BAR NUME NUME </td <td>514</td> <td>00067</td> <td>1,432</td> <td>SF</td> <td>FIELD PAINTING STRUCTURAL STEEL, FINISH COAT, AS PER PLAN</td> <td></td> <td></td> <td>1,432</td> <td></td> <td>34 OF 55</td>	514	00067	1,432	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT, AS PER PLAN			1,432		34 OF 55
910 910 <td>540</td> <td>(00/0</td> <td>$\overline{\mathbf{x}}$</td> <td></td> <td></td> <td></td> <td></td> <td>\sim</td> <td></td> <td></td>	540	(00/0	$\overline{\mathbf{x}}$					\sim		
1939 1939 939 1939 939 1939 939 1939 939 1939 939 1939 939 1939 939 1939 193 <t< td=""><td>516</td><td>10010</td><td>114</td><td>F1</td><td>ARMORLESS PREFORMED JOINT SEAL</td><td>100</td><td></td><td></td><td>114</td><td></td></t<>	516	10010	114	F1	ARMORLESS PREFORMED JOINT SEAL	100			114	
1915 1915 1915 1916 1917 <th< td=""><td>516</td><td>13600</td><td>120</td><td>SF SF</td><td>72 PREFORMED EXPANSION JOINT FILLER 1" PREFORMED EXPANSION JOINT FILLER</td><td>100</td><td></td><td></td><td>20</td><td> ≓</td></th<>	516	13600	120	SF SF	72 PREFORMED EXPANSION JOINT FILLER 1" PREFORMED EXPANSION JOINT FILLER	100			20	≓
1970 1971 1973 1971 1972 1972 1972 1974 <th< td=""><td>516</td><td>13900</td><td>49</td><td>SF</td><td>2" PREFORMED EXPANSION JOINT FILLER</td><td>49</td><td></td><td></td><td>20</td><td></td></th<>	516	13900	49	SF	2" PREFORMED EXPANSION JOINT FILLER	49			20	
950 44100 150 EACH LAST CARDEN BERNANC WITH INTERNAL LABANESS AND LODA TARTE (RECOVERED LASS PERLAN) (114.2.38°) 160 160 160 160 170	516	14014	139	FT	INTEGRAL ABUTMENT EXPANSION JOINT SEAL	139				ů
off 4427 19 EACY EACYTOMERIC LANGUES AND LOD PLATE INFO (THEND SADE PLATA INTEGATION ADDITION THE DASK) 10	516	44100	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (13"x18"x2.499")		16			
100 1	516	44201	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11"x14"x3.398")	16				31 OF 55
319 2100 123 CP PROUS MUNUL UNITION CONTACTURE NATION PROVEMED AND TO CONTACTURE NATI										
NI EXAMP 108 101 1000 1000 <th< td=""><td>518</td><td>21200</td><td>123</td><td>CY</td><td>POROUS BACKFILL WITH GEOTEXTILE FABRIC</td><td>123</td><td></td><td></td><td></td><td></td></th<>	518	21200	123	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	123				
1/10 0/1 0/10 <th0< td=""><td>518</td><td>40000</td><td>168 50</td><td>F1</td><td>6" PERFORATED CORRUGATED PLASTIC PIPE 6" NON DEDEORATED CORRUCATED DI ASTIC DIRE INCLUDING SPECIALS, AS DED DI AN</td><td>168</td><td></td><td></td><td></td><td>22 AND 26 OF 55</td></th0<>	518	40000	168 50	F1	6" PERFORATED CORRUGATED PLASTIC PIPE 6" NON DEDEORATED CORRUCATED DI ASTIC DIRE INCLUDING SPECIALS, AS DED DI AN	168				22 AND 26 OF 55
578 25011 330 SY REINFORCED CONCRETE PAPPRIADE ISLAND N. AS PER PLAN 330 49 0P 55 528 9037 114 FT TPE C 0037141LATION, AS PER PLAN 1 4 4 49 0P 55 528 9037 134 FT TPE C 0037414LATION, AS PER PLAN 1 49 0P 55 611 32200 205 CY ROCK CHANNEL PROTECTION, TYPE C WITH FUTER 255 5	510	40011	50	<i>Г</i>	6 NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN	50				22 AND 20 OF 55
523 9037 114 F7 TYPE C INSTALLATION AS PER PLAN 0 114 49 of 55 607 32200 295 OY ROCK CHANNEL PROTECTION TYPE C WITH FLITER 0 1295 1295	526	25011	330	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"). AS PER PLAN				330	49 OF 55
Image: Control of the state of the	526	90031	114	FT	TYPE C INSTALLATION, AS PER PLAN				114	49 OF 55
607 32200 295 CY ROCK CHANNEL PROTECTION, TYPE C WITH FILTER 94 484 484 484 484 484 185 187 186 187 187 187										
Ph dM PR dM PR dM Statistic dM PR dM Statistic dM PR dM Statistic dM PR dM Rest dM PR	601	32200	295	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER				295	
	601	32200	295	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER				295	
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